

Message

**From:** Daisy Wang [Daisy.Wang@erg.com]  
**Sent:** 4/25/2018 5:28:17 PM  
**To:** Burdett, Cheryl [burdett.cheryl@epa.gov]  
**CC:** Bahr, Ryan [bahr.ryan@epa.gov]; Jessica Gray [Jessica.Gray@erg.com]  
**Subject:** R5 CSD Sampling: Lab Update  
**Attachments:** CSD GW Screening Sampling Investigation\_cb4\_20\_18\_ERG.DOCX

Hi Cheryl,

Attached, please find ERG's comments on the sampling QAPP. Please note that we have not yet finalized the paperwork on the WI State Lab of Hygiene or the University of Nebraska Water Sciences Laboratory. Can we have a call this afternoon to discuss in more detail?

The current status of each lab is the following:

WI State Lab of Hygiene – The lab should be submitting their price proposal to ERG today (4/25).

N15 Isotope Lab

University of Nebraska Water Sciences Laboratory – We have a price proposal from this lab, but are still negotiating with their legal team on the contract terms and conditions. They've requested changes to certain portions of the contract language that cannot be changed. We are hopeful that we can work things out because we were able to successfully subcontract with this same lab under a different EPA contract.

Please note that I've edited the sampling parameters table in the QAPP (included here for your reference, with changes highlighted):

Nitrate and N15 Isotope	
<b>Bottle Type</b>	250 ml high-density polyethylene cylinder-round with polyethylene unlined cap (liquids). Grab sample
<b>Preservation</b>	Freeze to -20 degrees F
<b>Holding Times</b>	28 days
<b>Number of samples</b>	89
<b>Duplicates</b>	None

UC Davis Stable Isotope Facility – We are still pursuing this lab in case the University of Nebraska does not work out. The lab has verbally told me that they have no issues with the contract terms and conditions, but they have very specific scheduling and sample preparation requirements that we're trying to figure out. The problem is that the lab project manager in charge of the N15 isotope analysis has been very slow to respond and difficult to coordinate with.

In case we need to go with the UC Davis lab, here is the QAPP table populated with the relevant details for UC Davis. Some of the details still need to be confirmed:

Nitrate and N15 Isotope	
<b>Bottle Type</b>	30-60 mL nitrate-free, freezable, wide-mouthed, screw-top containers
<b>Preservation</b>	filtered (<0.45 micron pore, preferably 0.1 micron), stored frozen, and shipped frozen
<b>Holding Times</b>	1-3 weeks (ERG still needs to confirm)
<b>Number of samples</b>	89
<b>Duplicates</b>	TBD (From the SIF website: "We recommend saving a duplicate set of samples in case of sample loss, whether due to shipping loss or cracked vials.")

I believe I've sent this to you before, but here are the sample preparation details for UC Davis:

<http://stableisotopefacility.ucdavis.edu/no3samplepreparation.html>

I'll send another update as soon as can.

Thanks,

Daisy Wang  
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